

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An antenna feed assembly comprising:

a substrate;

a dipole on said substrate;

a reflector on said substrate; and

at least one bandpass filter element on said substrate, operationally between said dipole and said reflector.

2. (Currently Amended) The antenna feed assembly of claim 1, ~~wherein said dipole antenna is constructed on a substrate, and wherein said bandpass filter elements comprise conductive traces fabricated on said substrate.~~

3. (Original) The antenna feed assembly of claim 2, wherein said substrate comprises a printed circuit board.

4. (Original) The antenna feed assembly of claim 2, wherein said at least one bandpass filter comprises a material selected from the group consisting of metals and semiconductors.

5. (Original) The antenna feed assembly of claim 4, wherein said at least one bandpass filter comprises a metal selected from the group consisting of copper, brass, aluminum, and gold.

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6. (Original) The antenna feed assembly of claim 2, wherein said at least one bandpass filter element comprises a first bandpass filter element and a second bandpass filter element.

7. (Original) The antenna feed assembly of claim 6, wherein said first and second bandpass filter elements are elongated rectangles parallel to an edge of said dipole.

8. (Original) The antenna feed assembly of claim 6, wherein said at least one bandpass filter element has a bandwidth of approximately 2400 MHz to approximately 2500 MHz.

9. (Currently Amended) A planar antenna feed assembly comprising:
a substantially planar substrate;
a dipole and a reflector provided on said substrate;
a first bandpass filter element provided on said substrate, operationally
between said dipole and said reflector; and
a second bandpass filter element provided on said substrate, operationally
between said dipole and said reflector.

10. (Original) The planar antenna feed assembly of claim 9, wherein said dipole has a width W_D and a length L_D ; said first bandpass element is an elongated rectangular having a length L_1 , a width W_1 , and a center line located S_1 from the

centerline of said dipole; said second bandpass element has a length L_2 , a width W_2 , and a center line located S_2 from said dipole; and wherein:

L_1/L_D is approximately 1.00;

S_1/L_D is approximately 0.4;

S_2/L_D is approximately 0.20; and

L_2/L_D is approximately 0.5.

11. (Original) The planar antenna feed assembly of claim 10, wherein W_1/W_D is approximately 0.18, and W_2/W_D is approximately 0.23.

12. (Original) The planar antenna feed assembly of claim 9, wherein said at first and second bandpass filter elements implement a bandpass filter having a bandwidth of approximately 2400 MHz to approximately 2500 MHz.

13. (New) An antenna feed assembly comprising:

a dipole on a substrate;

a reflector; and

a first bandpass filter element and a second bandpass filter element, wherein at least one of said bandpass filter elements comprises conductive traces fabricated on said substrate and wherein said first and second bandpass filter elements are elongated rectangles parallel to an edge of said dipole.

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